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10/599,506	08/13/2007	Kustaa Nyholm	PLANMECA-250944	1031	
54042 Cozen O'Conr	7590 05/11/201	2	EXAMINER		
277 PARK A			COBANOGLU, DILEK B		
20th Floor NEW YORK,	NY 10172		ART UNIT	PAPER NUMBER	
TILL TORKS	101/2		3626		
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			05/11/2012	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ggress@cozen.com ipdocketing@cozen.com

Office Action Summary

Application No.	Applicant(s)
10/599,506	NYHOLM, KUSTAA
Examiner	Art Unit
DILEK B. COBANOGLU	3626

The MAILING DATE of this communication appears on the Period for Reply	cover sheet with the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.							
 If NO period for reply is specified above, the maximum statutory period will apply and will Failure to reply within the set or extended period for reply will, by statute, cause the appl Any reply received by the Office later than three months after the mailing date of this core earned patent term adjustment. See 37 GFR 1.704(b). 	ication to become ABANDONED (35 U.S.C. § 133).						
Status							
1) Responsive to communication(s) filed on 08 August 2011							
2a) ☐ This action is FINAL. 2b) ☑ This action is n	on-final.						
3) An election was made by the applicant in response to a re	estriction requirement set forth during the interview on						
; the restriction requirement and election have been	incorporated into this action.						
4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Qu	ayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5) Claim(s) 1-4,6,9,10,13-17,19-21,23 and 25-28 is/are pend	ling in the application.						
5a) Of the above claim(s) is/are withdrawn from consideration.							
 Claim(s) is/are allowed. 							
7) Claim(s) 1-4.6.9.10.13-17.19-21.23 and 25-28 is/are rejective.	7) Claim(s) 1-4.6.9.10.13-17.19-21.23 and 25-28 is/are rejected.						
8) Claim(s) is/are objected to.							
9) Claim(s) are subject to restriction and/or election re	equirement.						
Application Papers							
10) The specification is objected to by the Examiner.							
11) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) b	e held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
12) The oath or declaration is objected to by the Examiner. No	te the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
13) ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some * c) ☐ None of:	der 35 U.S.C. § 119(a)-(d) or (f).						
1. ☐ Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No							
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disciosure Statement(s) (PTO-SB/08)	Paper No(s)/Mail Date 5; Notice of informat Patent Application						

Paper No(s)/Mail Date	
U.S. Patent and Trademark Office	_
PTOL-326 (Rev. 03-11)	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filled in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filled on 08/08/2011 has been entered.
- 2. Claims 1-4, 6, 9-10, 13-17, 19-21, 23, 25-28 remain pending in this application.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 1, 23, 25 and 27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. In particular, Claim 1 recites "means for <u>automatically</u> identifying" and "means for <u>automatically</u> transmitting information". Applicant points out the penultimate paragraph (par.43) for support. However, paragraph 43 recites "...entering and storing data has been advantageously arranged as automatic as possible, whereby the care personnel may spend as little

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time as possible for manual entering and storing of different data." The present specification does not recite the newly added "automatically identifying" or "automatically transmitting" functions.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- Claims 25-28 are rejected under 35 USC 101 because the claimed invention is directed to non-statutory subject matter.
- 7. Claims 25-28 recite a collection of software routines and an interactive set of lists, which appears to be a collection of non-functional descriptive material. The claims are therefore considered non-statutory because they are not capable of causing a functional change in a computer. As drafted, these claims fail to define any structural and functional interrelationships between the software routines and other elements of a computer that permit the computer program's function to be realized. (See MPEP section 2106)

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent. Art Unit: 3626

9. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- Claims 1-4, 6, 9-10, 13-17, 19-21, 23 and 25-28 are rejected under 35 U.S.C.
 102(e) as being anticipated by Sorensen et al. (hereinafter Sorensen) (U.S. Patent No. 7,739,125 B2).
 - A. Claim 1 has been amended now to recite data arrangement for dental-care environment, which comprises at least one dental-care-related device (U, T) and a data system (S), wherein the dental-care-related device is a dental unit (U) comprising an instrument table, the dental unit (U) being configured to control operation of at least one dental-care instrument (X), and wherein a data transmission communication has been arranged between the dental unit (U) and the data system (S); and wherein the arrangement comprises
 - i. a means for <u>automatically</u> identifying a predetermined event, the predetermined event being taking said at least one dental-care instrument (X) to use <u>from said instrument table</u> (Sorensen; col. 2, lines 50-57, col. 8, lines 3-67), and
 - ii. a means for <u>automatically</u> transmitting information related to said event to the data system (S) as a response to identifying the

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predetermined event, <u>said predetermined event being followed by operating said at least one dental-care instrument (X)</u>, <u>wherein said information includes at least one value of at least one operating parameter of said at least one dental-care instrument (X)</u> (Sorensen; col. 2, lines 50-57, col. 8, lines 3-67) (**Examiner's note:** No patentable weight is given to the "wherein clause" since it is simply an expression of the intended result of the process step positively recited, MPEP 2111.04, further the clause is not functional descriptive material a mere arrangement of data not functionally involved in the steps recited nor do they alter the recited structural elements) and

- iii. a means for storing said information in the data system (S) itemspecifically, said item being at least one of the following: the said dental care instrument, a patient, a certain tooth of a patient, and/or a certain tooth surface of a patient (Sorensen; col. 3, lines 19-52, col. 8, lines 3-67).
- B. Claim 2 recites arrangement according to claim 1, wherein the predetermined event is followed by a treatment event the target of which being a patient; and the means for storing have been arranged to store information related to the treatment event patient-specifically (Sorensen; col. 8, lines 3-67).
- C. Claim 3 has been amended now to recite Arrangement according to claim
 2, wherein <u>said item</u> is a certain tooth and/or a certain tooth surface of a patient
 (Sorensen: abstract).

instrument-specifically (Sorensen; col. 8, lines 3-67).

D. Claim 4 has been amended now to recite arrangement according to claim 1, wherein the means for storing have been arranged to store said information

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- E. Claim 6 recites arrangement according to claim 1, wherein the dental unit (U) comprises means for receiving information related to the predetermined event (Sorensen; abstract, col. 1, lines 4-14).
- F. Claim 9 has been amended now to recite arrangement according to claim 1, wherein the information related to the predetermined event further comprises at least one of the following data: data of the type of dental-care instrument (X) (Sorensen; abstract, col. 5, lines 6-22), identification data of the dental-care instrument (X), maintenance status data of the dental-care instrument (X), sterilisation status data of the dental-care instrument (X), point of time of sterilisation of the dental-care instrument (X), data of connecting the dental-care instrument (X) to the dental unit (U), data of taking the dental-care instrument (X) to use in connection with a treatment event, and/or data of the point of time the dental-care instrument (X) was taken to use, and wherein said at least one operation parameter values of the dental- care instrument (X) during the dental treatment event comprises data of operation time, rotation speed and/or power used, data of disconnecting the dental-care instrument (X) from the dental unit (U), data of disconnection time of the dental-care instrument (X) from the dental unit (U), data of performing a certain treatment procedure, and/or data of the point of time of performance of a certain treatment procedure.

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G. Claim 10 recites arrangement according to claim 1, wherein the means for identifying the predetermined event comprise an electronic reader device (Sorensen; col. 8, lines 3-67).

- H. Claim 13 recites arrangement according to claim 1, wherein the data system (S) comprising also a user interface and a display means connected with it; and the data system (S) is configured for transmitting to the display means information stored in the data system (S) and/or messages based on said information (Sorensen; abstract, col. 1, lines 4-14).
- I. Claim 14 recites arrangement according to claim 1, wherein the data system (S) is configured for transmitting to the dental unit (U) control data relating to a treatment plan and/or at least one dental care instrument (X); and the dental unit (U) has been arranged to be controlled according to said control data as a response to receiving said control data (Sorensen; abstract, col. 1, lines 4-14).
- J. Claim 15 has been amended now to recite method for maintaining an electronic dental-care register for a dental-care environment in a data arrangement, the dental-care environment comprising
 - i. at least one dental unit (U) configured to control operation of at least one dental-care instrument (X), and a data system (S), wherein a data transmission communication is formed between the dental unit (U) and the data system (S) (Sorensen: abstract. col. 8. lines 3-67):

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ii. a predetermined event is identified in the dental- unit (U), the predetermined event being taking said at least one dental-care instrument (X) to use; from an instrument table, said predetermined event being followed by operating said at least one dental-care instrument (X) (Sorensen; col. 8, lines 3-67);

- iii. information related to the identified event is sent from the dental unit (U) to the data system (S), said information including at least one value of at least one operating parameter of said at least one dental-care instrument (X) (Sorensen; col. 3, lines 19-52, col. 8, lines 3-67);
- iv. said information is received in the data system (S) (Sorensen; col. 8, lines 3-67); and
- v. said information is stored in the data system (S) item-specifically, said item being at least one of the following: the said dental care instrument, a patient, a certain tooth of a patient, and/or a certain tooth surface of a patient (Sorensen; col. 8, lines 3-67).
- K. Claim 16 has been amended now to recite method according to claim 15, wherein the information related to said operation is stored patient-specifically (Sorensen; col. 8, lines 3-67).
- L. Claim 17 has been amended now to recite method according to claim 15, wherein the information related to operation of said at least instrument is stored instrument-specifically (Sorensen; col. 8, lines 3-67).
- M. Claim 19 recites method according to claim 15, wherein

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an individual instrument is identified; the identification data is compared with a treatment plan of a patient who is the object of a treatment procedure **and/or** with status data of the individual instrument in question; it is detected if instrument (X) is unsterilised **or** does not correspond the treatment plan; and the said detection is expressed as a response to detecting an unsterilised instrument or an instrument not corresponding the treatment plan (Sorensen; col. 8, lines 3-67).

- N. Claim 20 recites method according to claim 15, wherein information related to the predetermined event is stored in a patient database of the dental clinic data system (S) (Sorensen; col. 8, lines 3-67).
- O. Claim 21 recites method according to claim 15, wherein as a response to identifying taking the at least one dental-care instrument (X) in use, data of taking said instrument (X) to use is transmitted and stored in the data system (S) instrument- specifically and patient-specifically, and further data of a dental procedure performed by said instrument (X) is transmitted and stored in the data system patient-specifically (Sorensen; col. 8, lines 3-67).
- P. Claim 23 has been amended now to recite dental-care-related device for performing dental-care events in a dental-care environment, wherein it comprises means for forming a data transmission communication with a data system (S) for the dental-care environment; means for <u>automatically</u> identifying a predetermined event; and means for <u>automatically</u> transmitting information related to the identified event to the data system (S) <u>as a response to identifying the</u> predetermined event, wherein the dental-care-related device includes a dental

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unit (U) configured to control operation of at least one dental-care instrument (X) and the predetermined event is taking said at least one dental-care instrument (X) to use, and wherein said information includes at least one value of at least one operating parameter of said dental unit, and wherein the dental-care related device further comprises means for storing information in the data system (S) item-specifically (Sorensen; col. 8, lines 3-67). (Examiner's note: No patentable weight is given to the "wherein clause" since it is simply an expression of the intended result of the process step positively recited, MPEP 2111.04, further the clause is not functional descriptive material a mere arrangement of data not functionally involved in the steps recited nor do they alter the recited structural elements)

Q. Claim 25 has been amended now to recite software product for a data arrangement for dental-care environment, the dental-care environment comprising at least one device (U, T) related to dental treatment and a data system (S), which software product comprises a program stored on program storage means and being readable by a computer, wherein it comprises a first routine by which a data transmission communication between the dental-care-related device (U, T) and the data system (S) is formed; a second routine by which a predetermined event is <u>automatically</u> identified in the dental-care-related device (U, T); and a third routine by which information related to the identified event is <u>automatically</u> transmitted from the dental-care-related device (U, T) to the data system (S) as a response to identifying the predetermined event.

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wherein at least one of the devices (U, T) related to dental treatment is a dental unit (U) configured to control operation of at least one dental-care instrument (X), and the predetermined event is taking said at least one dental-care instrument (X) to use, and wherein said information includes at least one value of at least one operating parameter of said dental unit (Sorensen; col. 8, lines 3-67). (Examiner's note: No patentable weight is given to the "wherein clause" since it is simply an expression of the intended result of the process step positively recited, MPEP 2111.04, further the clause is not functional descriptive material a mere arrangement of data not functionally involved in the steps recited nor do they alter the recited structural elements)

R. Claim 26 recites software product according to claim 25, wherein said program comprises a routine for running a method for maintaining an electronic dental-care register for a dental-care environment in a data arrangement, the dental-care environment comprising at least one dental unit (U) configured to control operation of at least one dental-care instrument (X), and a data system (S), wherein a data transmission communication is formed between the dental unit (U) and the data system (S); a predetermined event is identified in the dental- unit (U), the predetermined event being taking said at least one dental-care instrument (X) to use,; information related to the identified event is sent from the dental unit (U) to the data system (S); said information is received in the data system (S); and said information is stored in the data system (S) item-specifically (Sorensen; col. 8, lines 3-67).

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S. Claim 27 has been amended now to recite Software product in a data arrangement for dental-care environment, the dental-care environment comprising at least one device (U, T) related to dental treatment and a data system (S), which software product comprises a program stored on program storage means and being readable by a computer, wherein it comprises a first routine by which information related to a predetermined event is <u>automatically</u> received in the data system from the dental-care-related device (U, T); and a second routine by which said information is stored in the data system (S) so that it may be linked to the object of the event, wherein at least one of the devices (U, T) related to dental treatment is a dental unit (U) configured to control operation of at least one dental-care instrument (X), and the predetermined event is taking said at least one dental-care instrument (X) to use, and wherein said information includes at least one value of at least One operating parameter of said dental unit (Sorensen; col. 8, lines 3-67).

T. Claim 28 recites software product according to claim 27, wherein said program comprises a routine for running a method for maintaining an electronic dental-care register for a dental-care environment in a data arrangement, the dental-care environment comprising at least one dental unit (U) configured to control operation of at least one dental-care instrument (X), and a data system (S), wherein a data transmission communication is formed between the dental unit (U) and the data system (S); a predetermined event is identified in the dental- unit (U), the predetermined event being taking said at least one dental-

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care instrument (X) to use,; information related to the identified event is sent from the dental unit (U) to the data system (S); said information is received in the data system (S); and said information is stored in the data system (S) item-specifically (Sorensen; col. 8, lines 3-67).

Response to Arguments

- 11. Applicant's arguments filed 08/08/2011 have been fully considered but they are not persuasive. Applicant's arguments will be addressed below in the order in which they appear.
 - A. In response to Applicant's arguments about Sorensen does not teach "actual values of various operating parameters relating to a treatment would be stored", "storing information constituting actual operating parameters" and "there is no discussion whatsoever concerning storing specific operational parameter values relating to use of an instrument" (arguments 1-3, pages 9-10 of the Remarks); Examiner respectfully submits that Sorensen teaches "logging means for storing logging information, in particular logging information for any selected treatment and any of said sequential actions performed in the course of said treatment" in col. 3, lines 19-52, "all data related to the treatment of the patient are preferably logged" in col. 8, lines 39-49.
 - B. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "there is no means taught by which one could detect and store the actual (possibly changing value) of any operation parameter of an instrument

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during treatment") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DILEK B. COBANOGLU whose telephone number is (571)272-8295. The examiner can normally be reached on 8am-4:30pm, Monday through Friday.
- 13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Morgan can be reached on 571-272-6773. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/DILEK B COBANOGLU/ Primary Examiner, Art Unit 3626